Highway Number (ON) 5D: 470A

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 24.539 mi

Bridge Key: F-17-H	0	Inspection Date: 12	/11/2011	Sufficiency Rating: 95.5	Not Eligible
					Not Eligible
Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B	
Trans Region 2T	02	Posting status 41:	Α	SI Date 93C:	
County Code 3:	035	Service on/un 42A/B:	1 1	Bridge Cost 94:	\$ 0
DOUGLAS		Main Mat/Desgn 43A/B:	6 2	Roadway Cost 95:	\$ 0
Place Code 4:	45955	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
LONE TREE		Main Spans Unit 45:	2	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	51.5 ft	Border Bridge Number 99	
Level of Service 5C:	1	Max Span 48:	70.5 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	139.5 ft	Parallel Structure 101:	L
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
ACRES GREEN DRIV	E	Width Curb to Curb 51	51.5 ft	Temporary Structure 103	
Facility Carried 7:		Width Out to Out 52:	55.0 ft	Highway System 104:	1
SH 470 ML WBND		Deck Area:	7,674.7 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106	0000
		Min Undrclr Ref 54A:	H	Deck Type 107:	1
Prll Str No. 8P		Min Undrcir 54B:	18.5 ft	Wearing Surface 108A	6
		_			D D
F-17-HN		Min Lat Clrnce Ref R 55A:		Membrane 108B:	2
Location 9:	328.051174090	Min Lat Undrolr R 55B	8.8 ft	Deck Protection 108C:	1
1.3 M W OF JCT I 25		Min Lat Undrolr L 56:	4.501312267	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	8	Pier Protection 111:	#
IrsinvRout 13A	000000470A	Sub 60:	8	NBIS Length 112:	ΙΥ
IrssubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
Latitude 16:	39d 33' 51"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 53' 50"	Oprtng Rtg Method 63:	5 No rating	Future ADT 114:	80,560
Range18A:	67 W	Operating Rating 64:	62.1	Year of Future ADT 115	2027
Township18B:	67	Inv Rtng Method 65:	5	CDOT Str Type 120A:	CPGC
Section18C:	4	Inventory Rating 66:	37.0	CDOT Constr Type 120B:	31
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	004 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	8	Inspection Trip 122AA	
Custodian 21:	1	Deck Geometry 68:	5	Scheduling Status 122B	
Owner 22:	1	Undrclr Vert/Hor 69:	5	Maintenance Patrol 123:	30
Functional Class 26:	12	Posting 70:	5	Expansion Dev/Type124	С
Year Built 27:	1984	Waterway Adequacy 7	N	Brdg Rail Type/Mod 125A/B	R 0
Lanes on 28A:	3	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0 0
Lanes Under 28B:	4	Type of Work 75A:		Str Rating Date 130:	1/24/1997
ADT 29:	53,000	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2007	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	6	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C	X 99.99 0.00
Apr Rdwy Width 32:		Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	12/1/2005
	52.0 ft				
Median 33:	1.00.0	Frequency 91:	24 months	Weight Limit Color: 139	0
Skew 34:	1.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1 1 34 "in"	SI Frequency 92C:	-1	Userkey 7-Update Indid	J
Rail ht36h:	J04 III	FC Inspection Date 93A:			

Inspector Name: TATALASKIT

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	7,673	100 %	7,673	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	822	100 %	822	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	35	100 %	35	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	49	100 %	49	0 %	0	0 %	0	0 %	0	0 %	0
300/4	Strip Seal Exp Joint	(LF)	105	100 %	105	0 %	0	0 %	0	0 %	0	0 %	0
301/4	Pourable Joint Seal	(LF)	110	56 %	62	44 %	48	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	50 %	1	50 %	1	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	50 %	2	50 %	2	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	280	100 %	280	0 %	0	0 %	0	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
530/1	Approach Guardrail A	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	4 inches of asphalt. Newer overlay. Looks good.
109/4	P/S Conc Open Girder	Horizontal cracks at junction of web and top flange at the abutments. Cracking at closure pours of girder ends on both exteriors above the pier. Top flange of Girder 2C has been patched. See 2005 photo. Diaphragms missing at both locations in Bay B, where bridge was widened (PHOTC 1/08).
210/4	R/Conc Pier Wall	Hairline shrinkage cracks.
215/4	R/Conc Abutment	Light vertical cracks in backwalls and breastwalls. Horizontal crack at construction joint.
234/4	R/Conc Cap	Cap looks OK.
300/4	Strip Seal Exp Joint	New strip seal jts. at end of approach slabs per plans. Opened over 2 inches at A1, and opened 2.5 inches at A3. Filled with sand.
301/4	Pourable Joint Seal	These joints at bridge and approach slab junctions. Covered with asphalt.
321/4	R/Conc Approach Slab	Covered with new overlay.
325/4	Slope Prot/Berms	Concrete slope pave has pulled away slightly from the Abutments: up to 1.25 inch at left side of A1, up to 2.25 inches at A3. Minor horizontal cracking of original sections. Weeds and grass are growing from cracks. Slope pave paint is peeling at both abutments. Settling several inches at all conc. berms next to wings.

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Elem/Env	Description	Element Notes
326/4	Bridge Wingwalls	Light cracking at horizontal cold joint. Mod. vertical and diagonal cracks in transverse portion of both wing extensions or the right side, open 3/8 to 1/2 inches at each with seepage, rust stains and efflorescence. Concrete is breaking up at #1 left wingwall. See 2005 photo.
331/4	Conc Bridge Railing	Typical vertical cracks in both jersey barriers with efflorescence. Coating starting to peel off. Tire scuff marks at left side.
340/4	Superstr Cnc Coating	Looks OK.
341/4	Substr Conc Coating	Looks OK.
359/1	Soffit Smart Flag	Overhangs at piers have horizontal trans. cracks with light efflorescence and rust stains. A few trans. cracks with efflor. near Pier 2.
530/1	Approach Guardrail A	Approach rail at Abutment 1 is 2 inches low on left and right. Approach rails are breaking up. See 2005 PHOTOS.

Maintenance Activity Summary

MMS Activity Description		Recommende	Est Cost		
356.01	Curb & RI	12/1/2005	-1	2013	15000

Repair approach rails, as all four corners are breaking up, and settling.

Bridge Notes

Utilities: 1 inch diameter electrical conduit is mounted to both abutments under girders A, B, C, and in Bay C for lights.

All four corners of bridge approach are settling up to 2 inches.

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Inspection Notes

Time: 11:25	Temperature: 40 Degrees	Weather: Clear Team Leader: TAT	
Scope:			
✓ NBI: ✓ E	Element: Underwater:	Fracture Critical: Other: Type: Re	gular NBI
Inspector:	TATALASKIT	Inspection Team:	
Inspection Date	e: <u>12/14/2011</u>		
		Inspector	
		Inspector	